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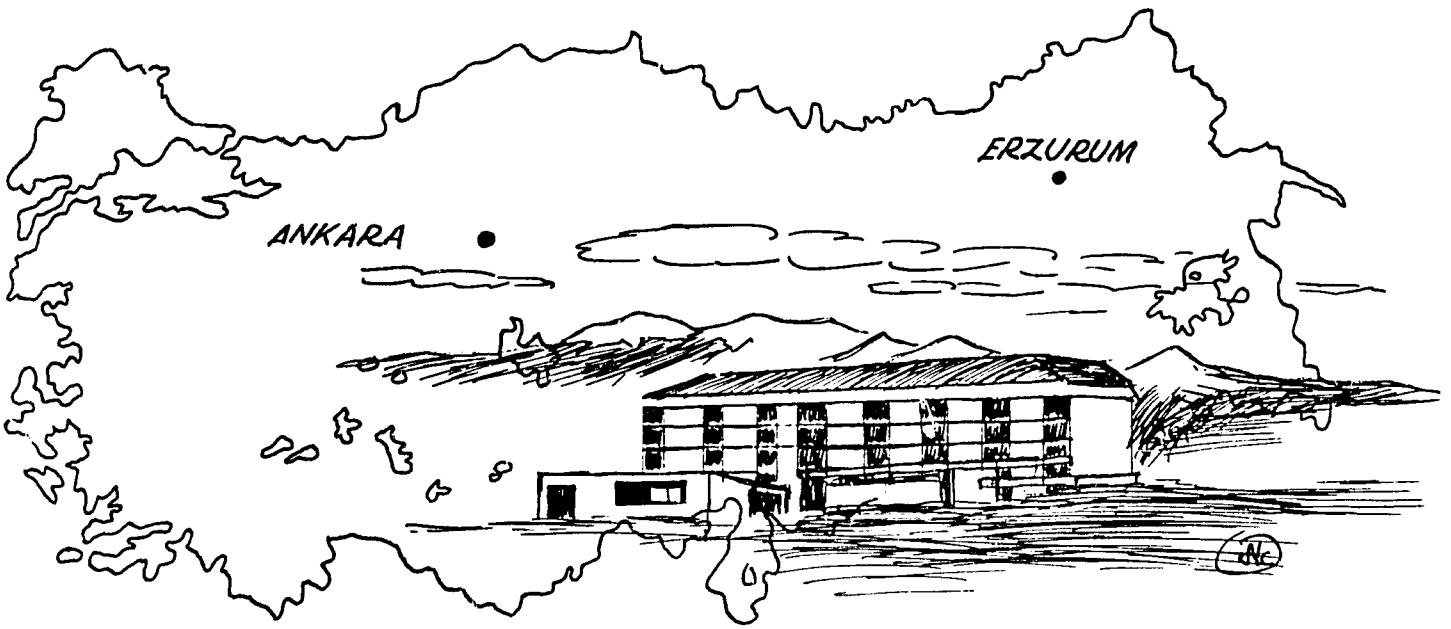

in Turkey

A.I.D.
Reference Center
Room 1656 NS

semiannual report
turkish university program

october 1,1963
march 31,1964

TABLE OF CONTENTS

UNIVERSITY OF NEBRASKA/A.I.D. CONTRACT..... 1

COORDINATOR'S COMMENTS..... 2

TURKISH PARTICIPANTS IN UNITED STATES 4

UNIVERSITY OF NEBRASKA STAFF IN TURKEY..... 5

REPORT OF HAROLD L. ALLEN, CHIEF ADVISOR

I Administrative Comment & Summary..... 6
II Personnel..... 7
III Participant Program 8
IV Equipment- Physical Facilities..... 9
V Program at Ankara University..... 9
VI Program at Ataturk University
A. Administrative Comment..... 10
1. Visitors & Travel..... 10
2. University Administration..... 12
B. Operations..... 13
C. Conclusion..... 13

DEPARTMENTAL PROGRAMS

A. Ankara
1. Home Economics- Evelyn Morrow..... 14

B. Ataturk
1. Agricultural Economics- Leo J. Fenske..... 21

2. Agricultural Engineering- John C. Steele..... 23

3. Botany- Lloyd H. Swift..... 29

4. Chemistry- Bryant Harrell..... 31

5. Economics- Edgar Z. Palmer..... 32

6. Library Advisor- Arthur J. Vennix..... 35

7. Plant Science- John L. Weihing..... 36

8. Soil Science- Wybe Kroontje..... 38

MEMORIALS:

Prof. J. Orvis Keller
Dr. John M. Winter

UNIVERSITY OF NEBRASKA - AID CONTRACT PROGRAM

In accordance with provisions of Contract No. AID-W-610 Appendix A-Article IV, we submit herewith the semi-annual progress report covering the period September 1, 1963- March 31, 1964.

Jason S. Webster, Coordinator
Uni.Nebr.Turkish Program

E. F. Frolik
Dean, Agricultural College and
School of Home Economics

Entered into Contract March 28, 1955

Amendments
May 3, 1955
June 29, 1955
August 5, 1955
September 19, 1955
March 16, 1956
July 3, 1956
September 22, 1956
January 5, 1957
November 22, 1957

Superseded by New Contract, May 15, 1958.

Amendments
(1) June 1959
(2) September 1959
(3) June 1960- Extended contract to June 30, 1962.
(4) May 1962 - Extends contract to June 30, 1964.
(5) Aug. 1963- Extends contract to June 30, 1965.

SCOPE: Render technical advice and assistance to Turkey for the purpose of:

1. Creating a new Land-Grant type University at Erzurum, Turkey.

2. Training its faculties of Agriculture and supporting fields.

3. Developing and strengthening Ankara University's program in Agriculture, Home Economics and Veterinary Medicine. (The Agriculture and Veterinary Medicine programs were phased out as of June 30, 1963. It is planned that the program for Home Economics will continue through June 1965.

Conditions: Governing Operations- Services provided in Turkey are an integral part of the United States aid and will be performed under the general policy guidance of the USAID Director; the University of Nebraska will be responsible for all professional and technical details of the contract and shall keep the USAID Director currently informed of the progress of the project.

COORDINATOR'S COMMENTS

by

Jason S. Webster

This six-months' period may be characterized as a vital period of self-analysis and planning that should greatly benefit Ataturk University. Early in the Fall, Rector Eyub Hizalan requested a detailed listing and discussion of the problems that face the University as seen by the members of the Nebraska group. The response from our group was very thorough.

The Administration, Ralph Gleason and Wesley Smith from USAID/Turkey, and our Chief Advisor, Harold Allen, then met with each department to seek solutions to problems. Much of this study led to the need of more finances and the need for changes in the Ataturk University law.

Between semesters in February, our staff had an opportunity to study problems beyond the University by meeting with A.I.D. personnel at Izmir. Here many phases of the agricultural economy of Turkey were studied.

The discussions and plans of the fall and winter led to direct action toward changing the University law. Dr. Ephriam Hixson, a former Nebraskan who had worked on the laws of developing universities in India and Nigeria,was brought to Turkey by A.I.D. to assist in developing the frame-work of a new law. Much was accomplished while he was in Turkey in March.

This prompted a visit to the new universities in India and the American University of Bierut. The visit was made by representatives of Ataturk University and the Ministry of Education. Harold Allen and Wesley Smith accompanied the group.

Another attempt to increase the efficiency of administration of Ataturk University, was made by Robert O. Renville, Chief, Public Services Division USAID/Ankara arranging with Rector Hizalan for a member of the Public Services Division staff to work with the Rector's office staff on administrative procedures.

I went to Turkey for a conference during the peak of this planning program for Ataturk University. All of the study and determination injected into this effort is sure to bring results during the next few months. Mrs. Webster accompanied me on this trip, which was her first. She proved to be an excellent Ambassador-of-good-will since she has many close friends among the participants' wives as well as those of our staff and she made many new friends. One of her most interesting experiences was to accompany Mrs. Allen to visit an elementary school in Erzurum.

We are indebted to Prof. Cahit Oncu for arranging two meetings with Rector Ihsan Dogramaci. We were impressed with his accomplishments at Haceteppe Hospital and his plans for developing it into a medical research institute. We were particularly impressed with his advanced

planning for a Medical Faculty at Ataturk University. This will not only be an important addition in itself, but it will bring about a strengthening of the Science Departments which in turn will be reflected in all segments of the University. It was also gratifying to observe Rector Dogramaci's interest in the Home Economics Department in Ankara.

The lack of Turkish text books and reference material will be an obstacle to top quality education at Ataturk University for the immediate future. Some of our staff describe in their part of this report how they are attempting to meet this problem. The demand for text books printed in Turkish is not sufficient to interest publishers. This problem must receive more attention in the future if Ataturk University is to excel in quality of education.

Laboratory instruction needs greater emphasis. The administrators of the University may not fully appreciate the value of this type of instruction for in some instances the absence of bottled gas and relatively inexpensive laboratory improvements are the principal deterrents to proper use of the laboratories. In some cases there is a lack of personnel and in others, the need for a more complete use of the available personnel.

It was interesting to attend the dedication of the newly equipped feed analysis laboratory. It should have served as an inspiration for other areas of the University to strive for the completion of their facilities. The young Turkish staff in Animal Science expressed their esteem for Prof. M.A.Alexander by dedicating the first alfalfa analysis to "Professor Alfalfa", as he was named by the farmers.

Another important event was the opening of the new Home Economics building in Ankara on March 25. Collegiate Home Economics should now be a well established force for the betterment of Turkey. Dr. Evelyn Morrow's work in the department until June 30, 1965 will further insure the stability of Home Economics in Turkey.

Everytime I visit our staff in Turkey, I am impressed with time, energy and expense that is used beyond the call of duty by all members. An outstanding contribution has always been the teaching of English not only at the University, but also in Erzurum. I would wager that the Turks not only learn English during these sessions, but also learn to appreciate some of the finer attributes of Americans. Our staff have learned much about hospitality from the Turks and they practice it on all guests. Our secretaries, Sally McCullough in Ankara and Shirley Crawford at Erzurum, have served as counselors for home-sick American military boys. The fact that both girls are experts in the culinary arts adds to their effectiveness. While we were in Erzurum, Col. English, the Commanding Officer of the Field Training Team expressed the appreciation of his command to Shirley Crawford. She was presented a large copper tray inscribed "Miss Shirley Crawford Honorary Member FTT 3 A March '63-March '65, Erzurum, Turkey."

ATATURK PARTICIPANTS IN THE UNITED STATES UNDER UNIVERSITY OF NEBRASKA AID CONTRACT PROGRAM AS OF MARCH 31, 1964

NAME	FIELD OF INTEREST	LOCATION	ARRIVAL IN U.S.	TERMINATION
AKSOY, Ayhan	Animal Science	Uni. of Nebr.	Jan.27,1964	Jan.26,1966
BAYSAL, Ismet	Plant Science	Uni. of Nebr.	Sept.6,1963	Sept.5,1965
BEYGU, Sara	Chemistry	Uni. of Wisc.	Jan.24,1964	Jan.23,1966
DUZKAYA, Mehmet	Mathematics	Uni. of Nebr.	Jan.27,1964	Jan.26,1966
HATUNOGLU, Turgut	Ag.Economics	Montana State	Feb.12,1962	Sept.7,1964
KIP, Ergun	Ag.Economics	Uni. of Minn	Sept.6,1963	Sept.5,1965
LELOGLU, Necdet	Bacteriology	Uni. of Nebr.	Jan.27,1964	Jan.26,1966
ORUC, Nazmi	Soils	Uni. of Calif. (Riverside)	Jan.27,1964	Jan.26,1966
OZALP, Nuran	Physics	Uni. of Nebr.	Sept.6,1963	Sept.5,1965
OZDENGIZ, Ali	Ag.Engineering	Uni. of Calif. (Davis)	Sept.11,1963	Sept.10,1965
SENOL, Sabahattin	Plant Breeding	Uni. of Nebr.	Sept. 6,1963	Sept.5,1965
TURKDOGAN, Orhan	Rural Sociology	Uni. of Nebr.	Sept. 4, 1962	Sept.3,1964
YILDIZ, Attila	Chemistry	Uni. of No.Car.	Sept.12,1963	Sept.11,1965
ZORAL, Kutlu	Ag.Economics	Montana State	Mar. 8, 1962	Sept.7,1964
	FORMER PARTICIPANTS UNDER UNI.NEBR. AID/CONTRACT PROGRAM NOW UNDER ASSISTANTSHIPS			
ALPAN, Orhan	Animal Breeding	Oregon State	Jan.22,1962	Jan.19,1965
AYDENIZ, Akgun	Soil Science	Uni. of Nebr.	Sept.14,1962	Sept.13,1964
KESKINTEPE, Hamza	Vet.Bacteriology	Uni. of Nebr.	Aug.28,1961	June 30,1964
SENEL, Servet	Animal Nutrition	Uni. of Nebr.	Aug.31,1961	Aug.30,1965
	FORMER PARTICIPANT UNDER UNI.NEBR. AID/CONTRACT PROGRAM NOW UNDER SPONSORSHIP TURKISH GOVERNMENT			
AKSOY, Necati	Soil Microbiology	Uni. of Nebr.	Jan. 27,1961	Aug.15,1966

PERSONNEL
UNIVERSITY OF NEBRASKA STAFF IN TURKEY
September 30, 1963 - March 31, 1964

Name	Position	From	To
Alexander, M.A.	Animal Science Advisor	Oct. 3, 1959	October 3, 1963 (Returned to U.S.)
Allen, Harold L.	Chief Advisor Nebr. Group	Sept.17,1956	August 14, 1965
Crawford, Shirley	Secretary-Ataturk Uni.	March 1, 1963	March 20, 1965
Fenske, Leo J.	Farm Management Specialist	Sept. 22,1960	Nov. 21, 1964
Harrell, Bryant	Prof. of Chemistry	Feb. 1,1963	Feb. 17, 1965
Morrow, Evelyn	Home Economist -Ankara	Jan. 1, 1959	June 30, 1965
Palmer, Edgar Z.	Prof. of Economics	Feb. 1, 1963	Feb. 17, 1965
McCullough, Sally	Administrative Secretary Ankara, Turkey	Nov. 29, 1960	Jan. 26, 1965
Steele, John C.	Ag.Engr. Spec.	Sept.15, 1962	Sept.20, 1964
Swift, Lloyd H.	Prof. Botany	Sept.19, 1963	Sept.18, 1965
Vennix, Arthur J.	Prof. of Library Science	July 1, 1962	Aug. 18, 1964
Weihing, John L.	Prof. Plant Science	Jan.25, 1964	Feb. 1, 1966
Wheeler, Ernest J.	Crops Specialist	Sept.6, 1960	Feb. 29, 1964 (Returned to U.S.)

Above staff members at Ataturk University, Erzurum, Turkey, unless specified Ankara, Turkey.

THIRTY-FIFTH AND THIRTY-SIXTH QUARTERLY REPORTS

University of Nebraska Group in Turkey

By

Harold L. Allen
Chief Advisor

October 1, 1963 to March 31, 1964

I.

Administrative Comment and Summary

When one stops to realize that as recently as eight years ago, Ataturk University was nothing more than an idea, the accomplishments to date are more accurately brought into focus. In January, 1956, the University did not exist, even on paper. There was no law giving the University legal sanction. The institution had no land, no staff, no buildings, no students, no educational nor research programs.

Today, the University is completely housed on the new campus. A student body of 750 students is enrolled in a four-year educational program. Baccalaureate degrees are offered to students majoring in general agriculture, animal science, agricultural economics, plant science, soil science, English, French, German, and Turkish. A research institute has been organized and research programs are being carried out. Nearly all of the University's more than 13,000 acres of land are being utilized for research and/or production. Faculty housing units for 120 staff members, a 400-student capacity dormitory, and the Chemistry buildings have been completed and occupied. Numerous additional buildings are under construction. Farm buildings have been completed, and livestock herds and flocks acquired and expanded. A Faculty of more than 150 members has been recruited, and more than half of these have received foreign training.

The present legislation, in spite of its weaknesses, has allowed this development.

Ataturk University began classes for its sixth year of operation on October 7, 1963. About 2,000 students applied for admission and took the entrance examinations. Of these, some 285 were accepted. However, many of the accepted students failed to appear at the beginning of the semester, since they had also applied for admission to other universities and were awaiting the results of entrance examinations. The result was that not all classes at Ataturk University were filled to capacity, and students continued to be accepted by the administration and registered for classes for nearly two months after school opened.

The morale of the Nebraska Group staff was generally good, although the continued frustrations encountered in some areas were, at times, a telling factor.

At the request of AID/Turkey, AID/Nigeria, offered the services of Dr. Ephriam Hixson for up to six weeks beginning in mid-February, 1964, to assist in the drafting of new legislation for Ataturk University.

In addition to their normal teaching loads and other duties at the respective universities, all Nebraska staff members attended the U.S./AID Food & Agriculture Division Conference in Izmir February 23-28.

The visit to Turkey by Jason S. Webster, coordinator of the Turkish Program at the University of Nebraska, and Mrs. Webster, in March, did much to bring the staff up to date on the current happenings at the University of Nebraska in Lincoln, and gave all members of the staff a chance to discuss their individual programs with Mr. Webster.

Comments on the programs at Ataturk and Ankara Universities are detailed in the text of this report. It should be mentioned here, however, that the continued fine support of A.I.D. was greatly appreciated by all.

II.

Personnel

A. Arrivals:

Prof. Wybe Kroontje, Mrs. Kroontje and daughter arrived in Ankara October 28, 1963, to begin a two-year tour of duty as Professor of Soil Science at Ataturk University. Dr. Kroontje, who received his Ph.D. from the University of Nebraska, most recently was on the staff of the Virginia Polytechnic Institute.

Prof. John L. Weihing and his wife, and four children arrived in Ankara February 1, 1964, to begin a two-year tour of duty as Professor of Plant Sciences at Ataturk University.

B. Nominations:

Prof. Ted H. Doane was nominated for the position of Agricultural Extension Advisor. The Doanes' are expected to arrive in Turkey in May 1964. Upon Dr. Doane's arrival, the University of Nebraska Group at Ataturk University will be fully staffed for the first time since 1958.

C. Departures:

Professor and Mrs. M.A.Alexander departed from Turkey on October 3, 1964 after completion of two tours of duty at Ataturk University, from October 3, 1959 to October 3, 1963. As Livestock Specialist, Professor Alexander served as Chairman and Advisor of the Animal Science Department. He also acted as Advisor of the Nebr. group for a portion of his term of duty. Professor Alexander's leadership in the Department of Animal Science will be enduring. He started the department off on a sound, practical program of teaching and research and developed a philosophy among the staff members that research finds are of little value unless they are put into use in the form of recommended practices by livestock men.

Professor and Mrs. Ernest J. Wheeler departed from Turkey on February 17, 1964, upon completion of 41 months of service at Ataturk University where Professor Wheeler served as Chairman of and Advisor to the Plant Science Department. Prof. Wheeler's influence at Ataturk University will continue indefinitely. He was well liked and respected by the entire Turkish and American staff, and both he and Mrs. Wheeler left life-long friends behind.

III.

Participant Program

A. Ataturk University

1. The following participants were in the United States for the entire report period:

AKSOY, Ayhan (Animal Husbandry-Extension, Uni. of Nebr.)
BAYSAL, Ismet (Plant Science) Uni. Nebr.
BEYGU, Sara (Chemistry,Unt. Wisconsin)
DÜZKAYA, Mehmet (Mathematics,Uni.Nebr.)
HATUNOGLU, Turgut (Agri.Economics, Bozeman,Mont)
KIP, Ergun, Agri.Economics,(St.Paul,Minn)
LELOGLU, Necdet (Bacteriology,Uni.Nebr.)
ORUC, Nazmi (Soil Science,Uni.Calif. Riverside)
OZALP, Nuran (Physics, Uni.Nebr.)
OZDENGIZ, Ali (Ag.Engineering,Uni.Calif. Davis)
SENOL, Sebahattin (Plant Science,Uni.Nebr.)
TURKDOGAN, Orhan (Rural Sociology) Uni.Missouri & Uni.Nebr.
YILDIZ, Atilla (Chemistry,Uni.No.Carolina)
ZORAL, Kutlu (Agri.Economics, Mont.State,Bozeman,Mont)

2. Two Ataturk participant candidates, SISMAN, Nevzat and CELEBI, Hayati, are in advanced stages to begin their programs in the United States. Dr. Celebi is expected to depart about July 1, 1964, and Mr. Sisman in August 1964.

B. Ankara University

Four Ankara University participants continued their programs of work in the United States with financing outside of the University of Nebraska/AID participant program:

AYDENIZ, Dr. Akgun (Soils Science)
KESKENTEPE, Dr. Hamza (Veterinary Science)
SENEL, Dr. Servet (Animal Nutrition) Vet.Science
ALPAN, Dr.Orhan (Animal Breeding-Vet.Science-Oregon State Uni.

IV.

Equipment and Physical Facilities

A. Ataturk University

1. Equipment:

A few orders for teaching aids, demonstration materials, and supplies were processed during the period and a part of the materials received. Some shipments of equipment purchased under the contract remained in Customs for an unreasonable length of time. Apparently Ataturk University was short of funds needed to clear the shipments through Customs in TFY 1963 which ended February 29, and funds for TFY 1964 have been tardy in being forwarded from Ankara.

2. Buildings

Outside construction work was at a standstill during the winter months. However, inside work continued on the Social Science Building and the Contractor expects it to be ready for occupancy about April 20. The remainder of the inside work on the Chemistry Building was also completed during this period. Also the Dairy Technology building was completed with the exception of the installation of electrical and water facilities.

B. Ankara University

The Ankara University Home Economics Building has been completed and was formally dedicated in a ceremony on March 25, 1964. The building had been occupied since late October, 1963. Approximately 500 people attended the opening ceremony at which the Dean of the Faculty; the American Ambassador to Turkey, Raymond A. Hare; and the University of Nebraska Home Economist, Dr. Evelyn Morrow, presented brief talks. A detailed report on the opening is continued in Dr. Morrow's report, a copy of which is attached.

V.

The Program at Ankara University

A. Administrative Comment

The official opening of the Home Economics Building marked the completion of long effort on the part of the University of Nebraska, A.I.D., and Ankara University Faculty of Agriculture personnel. For the first time the Department of Home Economics has a "home" in which to carry on those functions the Department is expected to do. As a result, the students will receive better training, the staff can do higher quality of work, and the morale of the departmental staff is greatly improved. It is gratifying to see the equipment purchased for the Department in operation for both teaching and research. Ankara University and Dr. Morrow personally, are to be congratulated upon this achievement.

One disturbing factor in the development of the Home Economics Department is the apparent inability on the part of the Faculty to recruit needed personnel. As outlined in previous reports, if the Home Economist is to make a maximum contribution during the remainder of her tour in Turkey, more staff will need to be recruited and trained.

B. The Home Economics Program of Activities:

1. Class Work

Sixty-eight home economics students enrolled for the 1963-1964 school year. There were 27 first-year students, 28 second-year students, and 13 third-year students. All of the seven home economics courses were being taught by Turkish staff members, with the American specialist serving as advisor and supervisor for the staff.

The second and third-year home economics majors were being given a total of nine courses during the second semester. All of the courses were being taught by Turkish personnel with the guidance of Dr. Morrow. Plans for summer practical work for the second and third-year students were in an advanced stage. Third-year students will spend 12 weeks during the summer doing practical work, and second-year students will do six weeks of summer work.

2. Staff Development and Training

Staff members continued their research work. Most of the work is being carried on with practical problems, and the results will be used in theses for academic advancement.

3. Miscellaneous Activities

The American Home Economist and Turkish staff members were engaged in a wide variety of activities detailed in the report of the Home Economist.

VI.

The Program at Ataturk University

A. Administrative Comment

1. Visitors and Travel.

During the past quarter, several official visitors were in Erzurum. Among them were:

Mr. Jason S. Webster, Coordinator, University of Nebraska Turkish Program, and Mrs. Webster, were in Erzurum from March 5 to 18. During this period, Mr. Webster was able to confer at length with Turkish and American personnel regarding the program, and to offer his advice and suggestions. He also was able to bring the University of Nebraska staff up to date on developments at the home campus.

During his visit, Mr. Webster was able to participate in many discussions between Ataturk University, A.I.D. and University of Nebraska personnel on policy, development, and staff matters, and gain a better understanding of the needs. He also met with the Minister of Education in Ankara and gathered first-hand impressions of his attitude toward the University.

Dr. Ephriam Hixson, U.S.A.I.D./Nigeria, spent from February 21 to March 27 in Turkey on temporary assignment to the U.S.A.I.D. Mission to Turkey to assist in the drafting of new legislation for Ataturk University. He was in Erzurum from March 5 to 21. While he was in Turkey, Dr. Hixson met with A.I.D. officials, the Minister of Education, representatives of Ankara University, and Ataturk University personnel, in addition to University of Nebraska Group staff members. Upon the completion of the first draft of proposed legislation, Dr. Hixson met with the Rector, the Deans of the Faculty of Agriculture and the Faculty of Letters and Science, U.S.A.I.D./Turkey and University of Nebraska personnel to discuss the draft proposal section by section. Out of these discussions and the suggestions and comments, a second draft was prepared and translated into Turkish before his departure on March 27. Dr. Hixson's experience with land-grant universities in the United States, and his previous experience in drafting legislation in India and Nigeria made him especially well suited for this task in Turkey, and his assistance was invaluable.

Mr. Ralph N. Gleason, Agriculture Officer, Food and Agriculture Division, U.S.A.I.D./Ankara visited Erzurum twice during the quarter, from January 30 to February 3, and March 12 and 13. During the first visit, lengthy sessions were held in the Office of the Rector, with the American Professors and the Turkish staff members from each of the departments in which an American is working. In these frank, critical discussions, the current situation as far as departmental development, was discussed in detail, needs of the department in the form of staff, training, equipment, budget, and physical facilities were outlined, and tentative plans for the departmental operations for the immediate future were discussed. Each of the sessions was extremely enlightening, in that new and different problems of a general nature were aired. Such detailed discussions take place all too infrequently. Mr. Wesley Smith and the Chief Advisor participated in all of the sessions.

During his second visit, Mr. Gleason conferred with the University administration, Dr. Hixson, and others on the development of the draft legislation, and participated in discussions on the administrative problems of the University. He also met with Mr. Webster, who was in Erzurum at the time.

Mr. Robert O. Renville, Chief, Public Services Division, U.S.A.I.D/ Ankara, was at Ataturk University March 12 and 13, at the request of the Rector to discuss possible areas where personnel from his Division could be of assistance to the University in improving its administrative procedures. Out of the discussions held with the Rector, it was agreed that a member of the Public Services Division staff would be assigned to Ataturk University for a month or more within the near future to work on these problems. This is another indication that the Rector is sincere in his stated wish to bring about more effective and efficient operation of the University.

Mr. Wesley S. Smith, Agriculture Advisor, U.S.A.I.D./Ankara, returned from home leave in mid-January, and was in Erzurum from January 30 to February 5, and March 5 to 21. During these visits he participated in the discussions outlined above, conferred with American and Turkish staff members on problems, programs and procedures, and in general served in a wide variety of very useful capacities as the A.I.D. contract representative. Mr. Smith's assistance, counsel, and advice, are highly respected and welcomed.

In addition to the above individuals visiting Erzurum, the Chief Advisor spent the periods of January 9 to 22, February 17 to 22, February 29 to March 4, and March 22 to 28 in Ankara conferring with U.S.A.I.D., Ministry of Education, Ministry of Agriculture, Ankara University and other Government of Turkey officials regarding the development of Ataturk University. Interest on the part of all contacted was high, and sincere support for the proposed new legislation seemed to be present.

Through the excellent cooperation of U.S.A.I.D., Ataturk University, and Ministry of Education officials, it was possible to make final arrangements for a delegation of five Turks and two Americans to visit India and Lebanon for approximately two-and-one-half weeks to observe land-grant type universities developing in these countries. The delegation, composed of Prof. Dr. Hakki Kisakurek, Dean Faculty of Agriculture, Ataturk University; Mr. Mehmet Aslanturk, Assistant Under-Secretary, Ministry of Education; Dr. Fahrettin Tosun, Director, Agricultural Research Institute, Ataturk University; Dr. Mehmet Oner, Botany Department, Ataturk University; Mr. Raif Savas, Director, Vocational Agricultural Schools, Ministry of Agriculture; Mr. Wesley S. Smith, U.S.A.I.D./Ankara; and the Chief Advisor of the University of Nebraska Group in Turkey, Mr. Harold L. Allen, departed on March 28. Observations and comments on the trip will be reported later. The cost of the trip for the Turkish delegates was paid with Turkish Lira Funds, through the University of Nebraska Project Special Project Fund. American personnel were financed with Trust Funds.

All professional staff members of the University of Nebraska Group in Turkey participated in the Food and Agriculture Division staff conference in Izmir, February 23 to 28. During this conference, the staff was able to gain a better understanding of the total effort in the field of food and agriculture being exerted by U.S.A.I.D., tell of their own activities, and exchange information with others working in related fields. At the close of the conference, the personnel of the division were invited, on behalf of the Rector, to hold a similar meeting in Erzurum at Ataturk University in September, 1964.

2. University Administration

A new Dean of Agriculture, Prof. Dr. Hakki Kisakurek of the Ankara University Faculty of Agriculture, arrived in Erzurum in mid-February. The position had been vacant for approximately four months prior to that time. Thus far, the University of Nebraska personnel at Ataturk University has been quite favorably impressed with him.

The Rector's action in requesting assistance from the Public Services Division has been interpreted as a positive step. In addition, he has assigned an English-speaking typist to the University of Nebraska

Group to translate all correspondence between the offices of the Rector and Deans and the Nebraska Group. This has helped considerably in speeding up the flow of correspondence and in overcoming the language barrier.

For the most part, there appeared to be a distinct willingness on the part of the University administration to improve the operating efficiency and effectiveness of the institution.

B. Operations

For the most part, the activities of the University of Nebraska staff at Ataturk University centered on the operations and development of their respective departments, including resident teaching, research, and to a limited extent, extension activities. The first semester was completed without incident, and the second semester classes began on schedule March 2. Again this semester, there is improvement in the quality and quantity of laboratory instruction being offered, but still shortages in some areas as indicated in previous reports, exist.

Some staff members were experiencing difficulty in getting research projects approved and implemented. The pasture fencing and range management project, for which funds were provided through A.I.D. in 1961, still had not been implemented. A proposed irrigation methods project proposal lay dormant on some desk. Some needed equipment has been in Customs for long periods of time.

Neither the Faculty of Agriculture nor the Faculty of Letters and Science had reorganized its Council of Professors, even though there are now sufficient numbers of professors in the Faculty of Agriculture.

Staff recruitment remains an unsolved problem, and most departments have one or more positions open at present. Additional staff are badly needed in many departments, including chemistry, botany, bacteriology, and soils.

Each staff member has outlined his activities for the period and given his comments in the attached reports. As in the past, each staff member has done yeoman service in his assignment.

C. Conclusion

In spite of continuing problems, there appears to have been a good foundation laid in the immediate past for permanent improvement and an acceleration in the development of the University. When one evaluates the total program over the past eight years, one cannot help but feel that real progress has been made, and that continued, more rapid progress will come about.

QUARTERLY REPORT

Evelyn Morrow - Home Economist

This report includes a brief summary of the past six months' program with a projected program until September 30. The major part of the report covers the work and activities for the period January 1, 1964 through March 31, 1964.

Current Situation- Home Economics Department

The major event this quarter was the official opening of the Home Economics Building. Approximately five hundred people attended the opening ceremony. Dean Celal Tariman, Ambassador Raymond Hare, and Dr. Evelyn Morrow presented brief talks on the development and future of home economics in Turkey.

The Communication Resources Division of A.I.D. cooperated with the home economics faculty and produced a most informative and attractive brochure on home economics. The pictures were taken by A.I.D. photographers and the contents of the brochure were written by the home economics staff. The brochure was given out to all those attending the opening ceremony.

The faculty is purchasing 500 more copies to use in recruiting students and giving publicity to home economics.

Briefly, the contents of the brochure is as follows: A definition of home economics as written by Turkish staff members, an explanation of why a home economics major was established in Turkey, a listing of the home economics areas with the overall objective of each area (pictures to illustrate activities in each area were used), requirements were stated for entrance to the home economics major and the job opportunities for home economics graduates were outlined.

The major share of the food served at the opening ceremony was prepared by the students and the staff. This was a sharp departure from usual procedure where everything must be purchased from a commercial bakery. The arrangement and service were both well organized and executed. All the guests were served in an orderly fashion.

The junior students served as guides and conducted the entire group through the building. Most of the guests were surprised if not amazed at the size and capacity of the building.

All areas of the building are now being fully utilized with the exception of the cafeteria and cafeteria kitchen. It is hoped that these will be in full operation by next October.

Equipment for Building

In preparation for the opening of the building, many jobs that had been hanging fire were completed. Ten davenports and twenty chairs that had been received from surplus commodities and AID had been completely upholstered;

all other used furniture received in like manner had been refinished and polished. Ten mattresses were recovered and look like new. It certainly proved that good use was made of all used furniture that had been secured by the home economics faculty.

The agriculture faculty purchased 300 student chairs, 40 leather library and desk chairs, 20 leather arm chairs for offices, five new office desks, six steel bookcases, ten large laboratory tables, sixty laboratory stools, a large conference table, three classroom lecture desks, three portable blackboards, bed linen, hand and dish towels, cupboards and cabinets throughout the building.

Cabinets have to be installed in the home management laboratory and the home management practice house. Plans are underway for the completion of these items.

The home management house has been completely furnished from surplus furniture and items. The only purchased items are the bedspreads, blankets and sheets and a beautiful 10' x 13' rug.

All shipments of equipment from the Nebraska-AID program have been received and are in use. The exception is the settlement for laboratory equipment that was damaged aboard ship. The steamship company is now being sued by all consignees. This may be a long process and in the meantime, nothing can be done to replace the damaged and ruined items which are necessary for our nutrition laboratory.

As the laboratories have been put into use, there are many small items that must be added to make them more effective. Our present budget will allow for the purchase of most of these items.

One major problem has not been solved as yet and that is the connection of the gas. It has been impossible to secure the permit for this work. Each week an attempt has been made but so far, the only progress is the work done in digging the canal.

Use of the Building

Thus far, the home economics building is being occupied by home economics, agricultural extension, textiles and village handicrafts, and a special workroom for horticulture. Each week brings requests from other departments for classrooms, offices, etc. It has been necessary to turn down these requests because the building is fully occupied at present.

The social room may well become the social centre of the campus. There have been many requests for its use but before permitting any group to use it, certain regulations and rules governing its use must be established.

A special ceremony honoring the eight assistants who received their doctorates in the faculty of agriculture was held in the social room. The home economics students are planning a party for the other departments the first part of May.

Research Work

Dr. Ayse Erkut presented her docent thesis to the faculty of agriculture in March. Unfortunately, due to illness, Dr. Kundak was not able to complete her thesis.

Assistant Neriman Gorgunay from Ataturk University, spent one month at Ankara working on her doctorate thesis. It is hoped that she can complete it by May 15. Assistant Bersin Ipek from Ataturk University will come to Ankara in May to complete her doctorate thesis.

Preparations are being made for Assistant Seniha Ozbas to start work on her doctorate thesis in May. Her thesis will be in the field of nutrition.

Dr. Sevim Erel will start to plan her docent thesis during the summer months. Her thesis will be on housing.

Assistants in Home Economics

To date the situation with Assistant Kamuran Dogan has not been settled. Rector Hizalan has given his permission for Miss Dogan to transfer from Ataturk University to Ankara University but it appears that the dean of agriculture also must grant approval. This approval was obtained from Dean Kisakurek, however, he indicated that permission must also be received from the chairman of the department in which Miss Dogan is working. It appears to be a problem for which no one at Ataturk University wishes to take responsibility. It would seem that after six months some kind of decision could have been reached. Miss Dogan has been working since November without pay.

Kadro for two new assistants in home economics were requested at the faculty meeting in March.

Class Activities for Summer Semester

In addition to regular required science courses, classes being taught for sophomores in the summer semester include:

1. Clothing and Textiles	Assistant Kamuran Dogan Assistant Neriman Gorgunay Prof. Evelyn Morrow
2. Family Health	Dr. Sevim Erel Guest lecturers from School of Hygiene
3. Foods and Nutrition	Dr. Ayse Erkut Asst. Seniha Ozbas

The Home Economics courses taken by juniors are:

1. Work Simplification	Dr. Suat Kundak
2. House Planning	Dr. Sevim Erel

3.	Child Psychology	Doc. Dr. Rezan Sahinkaya
4.	Family Relationships	Doc. Dr. Rezan Sahinkaya
5.	Home Economics Extension Methods	Dr. Suat Kundak Prof. Evelyn Morrow
6.	Experimental Cookery	Dr. Ayse Erkut

In addition, the juniors are taking food preservation, textiles and village handicraft, family law, milk and milk products, plant nutrition, animal husbandry, and statistics.

The juniors will spend twelve weeks this summer doing practical work. Their program includes working one week on a special project in the department; one week practice in a nursery; two weeks at Orman Ciftlegi; one week at community health centers; and six weeks working with an extension home agent.

The sophomores will do six weeks of summer work. Their program includes three weeks work with an extension home agent, one week in the home economics department on assigned projects, and two weeks at Orman Ciftlegi.

The program for the thirty-four girls doing summer work has been carefully worked out with all people concerned. Supervisory visits will be made to all the girls while they are working in villages and at the State Farm.

Conference at Izmir

Considerable time was spent working on committees in preparation for the Food and Agriculture Conference held at Izmir the week of February 23. Being on both the Program Committee and the overall Steering Committee necessitated several meetings.

In evaluating the conference, first it appears to have accomplished the goal which was set; i.e. to study the development plans and activities of the Food and Agriculture Division to determine how well they are meeting the needs of Turkish agriculture at the farmer level. In addition, it provided an opportunity for each technician to better understand the other's job and how the work might be inter-related across lines.

In planning a conference of this kind, one must always make the decision of putting every subject on the docket or of selecting only a few and studying those carefully. There was only time to hit the "high spots" of each topic at the conference. This was not too serious for the first one, but perhaps for future conferences it would be wise to be more selective and provide ample time for discussion groups.

Other Activities:

1. Two follow-up meetings were held with representatives from the Test and Measurement Bureau of the Ministry of Education and teachers from the Teacher Training for Girls Institute to assist in revising the home economics curriculum for the girls institutes in Turkey.

2. The teachers from the Girls Institute Training Center and Dr. Rebekah Shuey of A.I.D., have visited our home economics laboratories on different occasions to gather information on equipment and curriculum.

3. A special nutrition survey project was worked out to use in a food consumption study. This will be a cooperative project with the Health Center under the Ministry of Health.

   Also in relation to this CARE is sponsoring a feeding program for primary school children on which they have asked assistance in evaluating the value of school lunches. This will be a cooperative undertaking between the Ministries of Health, Education, Agriculture, CARE and Food for Peace.

4. Considerable time was spent with National Extension Home Economics Director and Miss Maude Smith, Home Economist from A.I.D. on working out the summer program for the junior and senior home economics girls. The program will be finalized in April.

5. Very fine working relationships have been established with the School of Hygiene and Health Center. They have supplied lecturers for our family health class, have invited the students to health seminars, and the students will work one week this summer at the different pilot health centers in Turkey.

6. The home economics staff was asked to participate in the newly organized group "Family Planning for Turkey." The person in charge of setting up this plan was Dr. Erenus, a private physician. Dr. E. Fisek, Director of the School of Hygiene and Undersecretary of the Ministry of Health, was elected chairman. The members of the group come from varied educational and social agencies. Regular meetings will be held and a definite program will be drawn up.

7. Dr. Erenus, also proposed a plan to help us establish our nursery for the home economics department.

8. Peace Corps girls visit the home economics department and confer with staff on current situations.

9. Two Food for Peace meetings have been attended by the Home Economics specialist. Thus far only suggestions have been discussed on how to establish this program. One plan set forth is to use Title II foods to reimburse villagers for labor in constructing school kitchens and similar projects.

10. One of the most productive series of meetings was held with the staff where we prepared a working definition of home economics, the overall purpose of home economics in Turkey, and the overall and specific objectives of each area of home economics.

11. Some time was spent in trying out recipes as compiled by Vasfi Hakman and his staff from the Soybean Council. They are to be commended on the attractive 'cookbook' they have compiled and printed.

12. Considerable time was spent on publicity for the home economics program. Photographers from many agencies took pictures. The most complete set was taken by A.I.D. personnel. Twelve representative pictures were blown up to 20x24 size and are framed and hanging in the halls of the building. Many stories were given and written for Turkish magazines and papers. All of this is very time-consuming but it is hoped it will all bring about a better understanding of home economics and its place in education in Turkey.

13. Several conferences with parents have been held concerning the transfer of their daughters to home economics. Six students have transferred to home economics during this semester.

14. Regular meetings of the Professors' Council are attended. After due consideration we were granted thirty students for winter semester of 1964. This is an increase of ten over our quota for 1963. The home economics specialist is serving on the jury for two docents.

15. A complete inventory of all home economics equipment and property is being made indicating the item and how and by whom it was purchased or secured.

16. More than the usual amount of time was spent this quarter assisting doctorate candidates with the English summaries of their studies.

Looking forward to the next six months, it appears that the major areas of operation will be:

1. Completing the summer semester with the giving of examinations and final wind-up of course work. Also, an evaluation of each course will be taken with possible revisions.

2. Finalizing the program for summer practice work for the sophomores and juniors in home economics. Plans need to be worked out in more detail with the Director of the State Farm and the individual projects for the week spent in the home economics department must be set up.

3. Time will be spent visiting each of the girls while they are working in the villages.

4. Training of new assistants if we are able to secure two in June.

5. Special help to all staff members setting up new research projects.

6. Time for rearranging and completely setting up laboratories.

7. The development of the Institutional Management Unit--the cafeteria and cafeteria kitchen.

8. Assisting in the landscaping of the home economics grounds.

Agricultural Economics Department
Leo J. Fenske

Class Instruction

This period overlaps both semesters of the current school year. Departmental classes offered each semester are shown below:

Semester	Course	Instructor	No.Students
I	Agr.Econ.101,Marketing	Prof.Fenske,Asst.Turkbal	176
I	Agr.Econ.104,Farm Management	Doc.Dr.Aksoz	44
II	Agr.Econ. 51,Principles of Ag.Ec.	Doc. Dr. Aksoz	167
II	Agr.Econ.102,Cooperatives	Prof.Fenske,Asst. Gulten	70
II	Agr.Econ.105,Farm Credit	Prof.Fenske,Asst.Gullap	69

Research Projects

Research Project No. 1, Power Cost and Use Study in Erzurum, has been written up and submitted for publication.

Research Project No. 2, Sugar Beet Farm Study in Erzurum and Erzincan, has been finished. This comprised Ergun Kip's doctorate thesis. The committee did not accept it without some revisions. Inasmuch as Mr. Kip was about to depart for America as a participant, these revisions will have to wait upon his return.

Research Project No. 4, Farm Record Keeping Study, is partially completed. Docent Dr. Aksoz has about half of the field work done.

Research Project No. 5, An Economic Study of Kemaliye County, is also underway. Assistant Gulten has surveyed 120 farms in that area. He is studying these data now. Some follow-up field work is planned for next summer.

Research Project No. 7, An Analysis of the Agricultural Problems in Eastern Turkey, is still in the preliminary stages.

Three research projects (Nos. 3, 6, and 8) were transferred from the Agricultural Faculty to the Letters and Science Faculty when three assistants changed over to that faculty. One doctorate problem has been assigned to Attila Pacacioglu, Agricultural Director of Artvin. His subject is "An analysis of crop and livestock input-output relationships on commercial farms in the Artvin Province." He will carry on this study under my direction.

Field Trips and Conference

One field trip was made when enroute to the Izmir Conference. Consultations were held with A.I.D. staff members in Ankara concerning the topic "How can the problem of increasing population and decreasing size of land holdings be met to raise the level of living". Contacts were made at the Central Statistical Office on data for current research projects, and at Middle East Technical and Ege Universities, Economics and Agricultural Economics Departments, respectively.

I attended the Agriculture Division Conference in Izmir, February 24-28. This conference proved worthwhile from the standpoint of learning about the over-all workings of the division, and from personal contacts made with the A.I.D. people on the staff.

Staff and Participants

Two new assistants were added to the staff on January 1, 1964. They were Yuksel Isyar and Tayyar Ayyildiz, recent graduates of Ataturk University Agricultural Economics Department.

Sefkati Gulten completed his probationary period. He is making good progress in English, and he will be nominated as a participant when the proper time comes. He is a very sound individual.

Kutlu Zoral and Turgut Hatunoglu are continuing their excellent work at Montana State College, and both should receive their Masters degrees in June. They will be very helpful to the Department upon their return next fall. Orhan Turkdogan will also return for next fall.

Ergun Kip is making fairly good progress at the University of Minnesota. He had a little difficulty with the language, but no more so than other recent participants. His work will improve.

Doc. Dr. Aksoz has completed his textbook on Principles of Agricultural Economics. This book will be published during the year.

Other Activities

Work on revising the students regulations has taken considerable time, and the job is not yet completed. The committee for this consists of Leo J. Fenske, chairman, Dr. Kroontje, Dr. Tosun, Dr. Alkan, and Doc.Dr. Goksu. The aim of this committee is to develop a set of student regulations that will be in keeping with a Land-Grant type university.

Some attention has also been given to the study of the proposed University law. This law is badly needed.

During Mr. Allen's absences from Erzurum, I have been Acting Chief.

Summer Plans

During the early part of the summer three local field trips are planned:

1) Kemaliye County with Sefkati Gulten to check on his field work.
2) State Farm at Igdir with Doc. Aksoz to continue his field study.
3) Rize and Artvin areas to acquaint myself with the agriculture of that region, and to check on one research study being carried on by the Artvin Agricultural Director under my direction.

In addition, the livestock study under the direction of Osman Arikan will be pushed to completion.

I hope to attend the two following World Conferences in France:

August 15-21 Rural Sociology World Congress, Riems
August 24-Sept. 3 12th International Conference of Agricultural Economists, Lyon

Agricultural Engineering Department
John C. Steele

January 1 - March 31, 1964

Teaching Program

This quarter included the last month of the first semester and the first month of the second semester 1963-64. The Agricultural Engineering Department gave three courses during the first semester:

1. Ag. Eng. 1 (Cultural Technique)
   Instructor: Dr. Hursit Ertugrul
   Assistant: Altan Ersayan

2. Ag. Eng. 5 (Farm Machinery & Power)
   Instructor: Battal Kushan
   Assistant: Dr. Hamza Dincer

3. Ag. Eng. 7 (Statics)
   Instructor: Dr. Ziya Alkan
   Assistant: Altan Ersayan

The second semester began March 2nd.

The Agricultural Engineering Department is responsible for three courses this semester.

1. Ag. Eng. 3 (Plane Surveying)
   Instructor: Nevset Sisman

2. Ag.Eng. 4 (Farm Structures)
   Instructor: Dr.Ziya Alkan
   Assistant: Nevsat Sisman

3. Ag. Eng. 51 (Irrigation)
   Instructor: Dr. Hursit Ertugrul

Staff Activities and Development

1. Dr. Ziya Alkan prepared and presented to the Ataturk University Agricultual Research Institute an outline of a project: "A Study of the Characteristics of Soil-Cement Blocks as They May Affect the Resettlement of Villages in Turkey." This was accepted by the Institute and Dr. Alkan has begun reviewing and analyzing all the literature related to the problem. He will start the field work involved immediately following the completion of this semester's classes.

In addition, Dr. Alkan continues to work on the preparation of lecture notes for his courses which he hopes to publish within the next two years.

2. Dr. Hursit Ertugrul has the full responsibility for the Ag.Eng. 51 course this semester. He has two sections with a total registration of 130 students. In addition to the time actually spent in the classroom and laboratory and in grading papers, Dr. Ertugrul is preparing rather comprehensive lecture notes. He plans on publishing these ultimately as a textbook for university students.

Dr. Ertugrul also serves on the Research Institute Executive Board which demands a sizeable portion of his time. He also serves as Acting Director of the Institute whenever the Director is absent from Erzurum.

3. Battal Kushan has no class responsibilities this semester, so is devoting all his time to completing his Doctoral research and thesis. He had planned to have completed these by April 1, but decided to do some additional testing. He now plans on being through by about May 1.

Battal continues his study of English by attending an English grammar class given by the English Philology Department.

4. Nevsat Sisman finished the intensive English course at Georgetown University in Ankara by meeting the proficiency standards required for those going to the United States for advance study. Wanting to finish his Doctor's degree before going to the United States, Nevsat returned to Ataturk University the 20th of January. He is to go to America this fall.

Mr. Sisman, desiring more classroom experience, has been teaching the surveying course (Agr.Eng. 3). He has also been assisting Dr. Alkan with the Agr.Eng. 4 (Farm Structures) course. In addition to these duties, he has been working on his Doctor's thesis and attending the English grammar class.

5. Altan Ersayan during the first semester assisted Drs. Alkan and Ertugrul with their courses: Agricultural Engineering 7 and Agricultural Engineering 1 respectively. This semester Altan has no teaching responsibilities hence is doing some work towards his Doctor's Degree. His Doctoral research and thesis is entitled "A New Study of Heating, Cooling, Ventilating and Conditioning Problems of a Complete Farm Enterprise" and he is presently making a search of the related literature.

6. Idris Kushan, who completed his Army service the 29th of February, reported for work in the Agricultural Engineering Department the morning of March 30, 1964.

Farm Activities

Snow and low temperatures during the winter limited activities at the farm to that of planning and preparing for spring and summer work. The Agricultural Engineering Department's responsibilities in this area are listed below:

1. Irrigation

   a. The Agricultural Engineering Department has been working since last spring to provide a minimum of two deep well pumping plants. These are critically needed to provide water for the Plant Science Department's research plots.

      These pumping plants should be installed by June 1, well in advance of the irrigation season.

b. The Agricultural Engineering Department, proposed the establishment of a sizeable irrigation demonstration on the University Farm. We were advised to prepare a project application similar to a research project application. This was done and presented to the Dean of Agriculture who is expected to turn it over to the Research Institute for acceptance or rejection.

The objectives of this project are:

(1) To demonstrate to University students and administrators, Erzurum farmers, and the general public the complete development of a practical irrigation system. This will include:

(a) Planning
(b) Surveying and staking
(c) Operating soil moving equipment
(d) Land grading techniques
(e) Water distribution methods and techniques

This project has been outlined in every detail and will be put into operation as soon as official notification of its acceptance has been received. It has also been coordinated with the proper A.I.D. officials, as the use of a limited number of their technicians is contemplated in carrying out the training phases of the project.

Other Activities:

1. The reporter along with the other members of the Nebraska Group attended the Agriculture Division Conference at Izmir February 24-28, 1964.

2. On March 26, 1964, Nuran Gurel, Topraksu, arrived at the University to meet with the Soils and Agricultural Engineering Departments to develop a Memorandum of Understanding. This was in regards to the establishment of a Course of Study leading to the graduation of Professional Agricultural Engineers specially trained in the Soil and Water field.

The first meetings were spent in discussing a possible four-year course of study and the assistance that might be required from Topraksu to make such a program possible. This discussion was based on a suggested four-year curriculum worked out by the Chairmen of the Soils and Agricultural Engineering Departments. At the conclusion of the fourth meeting the Soils Department, Agricultural Engineering Department, and Topraksu had agreed upon the program and assistance required. This was based upon the premise that the Soils Department would continue to give a major in Soil Science. (A summary is attached to this report).

The final meeting was devoped to developing a Memorandum of Understanding to be presented to the University and Topraksu administrations for consideration and acceptance. (copy attached).

SUMMARY

The course of study listed below is proposed as an initial curriculum. Under no circumstances should this be considered as being permanently fixed. With the present conditions, it appears to be generally acceptable. But as the staff increases and physical facilities become available, this course of study should be and will be strengthened and expanded.

First Year

First Semester		Second Semester	
Math (College Algebra)	4	Math (Trig. & Analytical Geom.)	5
Chem (general)	3 (lab)	Chem (general)	3 (lab)
Eng. Drawing	3 (lab)	Eng. Drawing (Des. Geom.)	3 (lab)
Botany	3 (lab)	Botany	3 (lab)
Foreign Language	5	Foreign Language	3
	18		17

Second Year

First Semester		Second Semester	
Math (Calculus)	4	Math (Diff. Equat)	4
Physics (General)	5 (lab)	Physics (general)	5 (lab)
Surveying (Plane)		Animal Science	4 (lab)?
Ag.Eng. 3) *	3 (lab)	Economics I (El.Econ.)	3
General Soils	4 (lab)	Cultural Technique	
Prin. of Econ. (Ag.Ec.51)	3	(Ag.Eng. 1)	2 (lab)
	19		

Third Year

First Semester		Second Semester	
Mechanics (Statics)	3 (lab)	Mechanics (Str. of Materials)	3 (lab)
Hydraulics	3 (lab)	Hydrology	3 (lab)
Geology	3	Meteorology	2
Soil Chemistry	3 (lab)	Soil & Water Cons. & Mgt.	3 (lab)
Plant Science	4	Fluid Mechanics	3 (lab)
Ag.Econ.(Farm Mgt.)	3	Soil Fertility	3
	19		17

Fourth Year

First Semester		Second Semester	
Irrigation	3 (lab)	Drainage	3 (lab)
Soil Physics	3 (lab)	Statistics	3
Soil Mechanics	3	Soil Genetics & Class.	3 (lab)
Turkish History	2	Machinery & Power	3 (lab)
Irrigation Const.	3	Turkish History	2
Electives	4	Electives	4
	18		18

* Used herein only as a means of identifying courses presently being offered at the University.

Accepting the course of study as the basis on which to initiate work leading to a Professional Agricultural Engineering degree in the soil and water field, it appears we will need the following assistance:

1. Assuming support from the Faculty of Letters and Science in the fields of Mathematics, Chemistry, Botany, and Foreign Language, the first semester's courses can be given next fall. This will require the equipping of a suitable drafting laboratory. The second semester will require one instructor qualified to teach descriptive Geometry.

2. The Agricultural Engineering Department and the Soils Department with the present facilities can provide the second-year courses. This, again, assumes support from the other departments of the University.

3. With the Agricultural Engineering staff presently available, instructors in Hydraulics, Hydrology, and Fluid Mechanics would be needed for the third-year courses.

4. The fourth-year courses can be given with the present staff; however, some assistance may be needed in providing adequate laboratory equipment.

The above statements are made on the basis of the availability of additional assistants for the Agricultural Engineering and Soils Departments.

The number of assistants needed will be determined by the number of applied Mechanics and Hydraulics laboratores. These two laboratories will be needed for Statics, Strength of Materials, Hydraulics, Hydrology, and Fluid Mechanics courses. All the laboratories will also be used for the research activities of graduate students and staff members.

THE PROTOCOL OF COOPERATIVE WORK BETWEEN ATATURK UNIVERSITY AND TOPRAKSU

The actual objective of this protocol is to offer mutual assistance to train Agriculture Engineers who will be readily adaptable to the work program of TOPRAKSU. In order to reach this goal, Ataturk University and TOPRAKSU have come to the following conclusions:-

1. Ataturk University will train staff that will be familiar to readily solve the technical problems in TOPRAKSU.

2. General Head Office of Topraksu will provide any of their staff that will be required by the University for teaching and research duties and for the same purpose they will also provide the necessary equipment.

3. For the development of the University farm, General Head Office of TOPRAKSU will assist with staff and equipment in those programs that will be within their activities.

4. TOPRAKSU will provide the means for practical work. In joint researches the two institutions will cooperate and share expenses involved.

5. The articles mentioned above will only be fulfilled by making the requisition through normal channels.

6. This protocol will be in effect after the approval of the principal parties:

TOPRAKSU
Faculty of Agriculture of Ataturk University

REPORT OF BOTANY DEPARTMENT

Lloyd H. Swift

During the first semester, Botany I was being given. The course had two lecture sections of about 65 students each, and four laboratory sections of two hours each per week. The lectures were again handled by Dr. Mehmet Oner with assistance in preparation from the Nebraska Group Advisor. The students prepared and distributed duplicated copies of the lectures. These form a partial substitute for a textbook.

The preparation of a laboratory manual for Botany I was undertaken by Dr. Oner during this period. He has had a number of photomicrographs made from slides in the Botany collection, and has converted these into india-ink drawings for reproduction. In connection with this and other work he has the help of a laborant, Sungur Guven, who has copied the main features of the photomicrographs onto tracing paper.

In March the second semester classes were begun. Botany 2 was again handled by Dr. Mehmet Oner. The Nebraska Group Botanist undertook Botany 102, the plant physiology course, but no translator was available. The first lecture was made with Ercan Guneyli, a capable second-year Phytotechnique student acting as translator. Guneyli was, however, carrying 25 credit hours, and could therefore not spare the necessary time to work regularly as a translator. He is interested in qualifying for Participant training, and would probably be quite successful if he were selected for it. Eventually, Dr. Oner was persuaded to undertake the work of translation on certain conditions, including the stipulation that a laboratory assistant be found to replace Dr. Aynur Unal, who resigned in January to accept a pharmaceutical position at Ankara University. The position of laboratory assistant is, however, still open.

In connection with travel to the Izmir Conference, the Nebraska Group Botanist visited the Botany Departments of Ankara, Istanbul, and Ege Universities. Each of these institutions has from three to five unfilled positions for assistants in Botany. They are, therefore, not in a position at present to provide assistants in Botany for Ataturk University. In the future, however, they should be able to provide an ample number, for all of these Departments are quite active, having a total of 7 professors, 8 docents, and 19 assistants. During these visits many expressions of condolence were offered by the faculty regarding the death of Professor Winter. Although he was unable to complete the identification of the plants he collected for Ataturk University, his is the only collection owned by the University, and the Botany Department suffers in not having it at hand when problems of plant identification arise. If the collection is received before summer, work can proceed toward the organization of a herbarium.

Dr. Oner has continued his research on soil fungi. In these and other tasks, he has had the help of the Botany laborant, Sungur Guven. One project has been a mineral deficiency study on Penicillium roseopurpureum Dierckx which demonstrated effects of deficiencies on colony size, sporulation, etc. The fungi research provided the Erzurum newspaper Albayrak with its feature story of February 3, 1964. Other Erzurum newspapers also gave the work publicity. Identifications have been received for a number of fungi sent to the Centraalbureau voor Schimmelcultures at Baarn in the Netherlands. Dr. Oner is hoping to be able to spend the summer at this institution in order to identify additional specimens, and to learn advanced techniques.

He feels this work would provide a basis for a mycology course with limited registration.

The Botany Laboratory remains in need of much basic equipment, but progress can be reported in that the tiling of the laboratory benches has now been completed. Also, an opaque projector is in use in the making of wall charts.

During this quarter, considerable time has been spent in committees and special conferences working on the many organizational problems of the Botany Department and of the University. These include procedures for making the scientific supplies in storage more accessible, the transferring of supplies to another room when the present contents of that room are moved to the new Social Science Building, recommendations on equipment priorities for the Botany Department and on the Department's future program, and recommendations regarding provisions of a proposed new Ataturk University law. In connection with these subjects an inventory of the present botanical equipment was made.

Chemistry Department

Bryant Harrell

Personnel

Assistant Sara Beygu departed in January for the U.S.A. She is now taking courses at the University of Wisconsin. Assistant Guven Uyanik has been informed by the Personnel Office that his military duty has been delayed until January 1967.

Curriculum

Two hundred and one students took the final examination in General Chemistry in January: 69% passed the course. This course continues in the present semester with Assistant Uyanik lecturing under my direction to a few more than 300 students in two sections. The increase is due to students who are taking the second semester for the second time and to the entry of students expelled from the War College.

I have attended all of the lectures, and I delivered several of the lectures when requested to do so by the assistants. The conduct of the lectures has been satisfactory. The assistants have handled their classes well, and they promise to develop into good teachers. Problems are assigned weekly. The lectures follow the text by Linus Pauling, "College Chemistry." The book was chosen primarily because its predecessor by Pauling, "General Chemistry", has been translated into Turkish. Though the translation is out of print, we were able to obtain copies for the students desiring them (half the class) from the translator. Planning for the course takes place at weekly meetings with the assistants. This course was continued in the spring semester.

During the fall semester Docent Cataltas has been giving the lectures in Organic Chemistry, a one-semester course, to about 75 students.

During the spring semester he lectures to 85 students on Analytical Chemistry. There is a two-hour "laboratory period" each week during which he gives demonstrations and works problems.

Docent Cataltas recently completed a textbook of analytical chemistry, and he submitted it to the university's publication committee. Rector has just informed Cataltas by letter that publication will be authorized only if Cataltas agrees to remain at the university for two more years.

Committees

The Dean has appointed a committee to propose regulations to govern the awarding of the doctoral degree. I am chairman of the committee. I am also a member of a committee charged with revising the student regulations of the Faculty. Both committees have met several times and progress is being made in the preparation of the regulations.

There has been little activity in the area of scientific supplies. Discussions of the proposed move of the equipment storeroom to allow the present storeroom to be converted into a cold room have occurred. Much time has been devoted to the series of meetings with the Rector early in Feb., the conference in Izmir, the proposed new law.

Department of Economics

Edgar Z. Palmer

October 1, 1963- December 31,1963

This quarter has seen the institution of two new courses: one in Accounting and one in Economic Statistics. These were started with the cooperation of Professor Fenske, of the Department of Agricultural Economics, who put some of his major students in each.

I have attended almost every class given in the Department during this semester. It is not required that I attend the classes in Economic Statistics taught by Osman Arikan, who has the status of Lecturer, but I have done so quite often because it is my favorite subject and this is the first time he has taught it. I am particularly pleased with the quality of instruction rendered by each of my assistants. Judging by the reaction of the classes, the results on the examinations, and the general manner of presentation, each assistant seems to be giving a good account of himself. If the University is able to retain their services, the Department should be a strong one in the future.

In supervising the examinations, I have the assistants suggest questions largely of the multiple choice type, have them translated into English, criticized and revised in consultation with myself, and then, where necessary, retranslated into Turkish. This is time consuming, but aids the young assistants in acquiring the skill of making good questions. In my opinion this is one of the most skilled jobs in teaching, and one often done poorly. I study the results of each examination, finding the difference in grade on each question between the poorest third and the best third of the class. This separates the questions into those that are too hard, those that are too easy, and those that show good differentiation, and further aids the assistants in constructing good questions.

I have lectured at least once in each class, the lecture being translated ex tempore. I have conducted one class entirely by lecture and translation. For this class (Principles of Economics) I have had two to five page summaries of each lesson translated into Turkish and mimeographed for the students.

For each of the other classes I prepared an outline of the lessons for the benefit of the instructor, with reference readings. Each week I have a conference with each assistant, covering the material he is currently treating in class and his plans for the coming week. I also take up the progress of his thesis.

STAFF IMPROVEMENT

Osman Arikan has what in my judgment is a fine thesis almost ready. It concerns the economy of the city of Erzurum, Turkey. He has proved to be indefatigable in obtaining data from primary and secondary sources, enlisting the cooperation of government agencies where necessary. He is

treating the subject historically as well as currently, theoretically as well as empirically. The theses of Demir Aslan and Ozdemir Akmut are progressing satisfactorily, and Talat Gullap is laying a good foundation for his.

COMMITTEE

I was chairman of a committee to set up a schedule of classes including room assignments for the entire University. With the excellent cooperation of the Rector this task was carried out, and I believe the schedule worked fairly satisfactorily. This was quite an innovation, especially in the Philology departments, to whom such advance planning was a strange procedure. Requests for minor changes have come to me during the entire semester. I am currently working on the schedule for the second semester. This time I have endeavored to throw more responsibility upon Turkish personnel, training them to carry this procedure out themselves. One representative from each college has the responsibility for the programs within that college. The Director of Student Affairs is on the committee, and I am asking him to be responsible for room assignments, including changes during the semester.

PLANS

For the coming semester I am definitely scheduling a seminar in Economic Development, which I shall expect each of the assistants to attend. This will require reading in English, and will be conducted in English, which should give them good practice in the language. Abdulbaki Pirimoglu is back from Georgetown, having failed to make a good enough final grade in English to become a participant, and I expect to aid him especially in the language.

I have also scheduled a course in Economic Development, to be taught by Osman Arikan. This is the only new course, and will of course not be given if no students are available.

January 1,1964- March 31, 1964

The highlight of the quarter has been the completion of the doctoral thesis by my assistant, Osman Arikan, on "The Economic Base of the City of Erzurum," and the awarding of the doctor's degree to him on March 26. A committee, consisting of Professor Fehmi Yavuz of Ankara University, Professor Fenske, and myself, approved the thesis, held the examination, and recommended the granting of the degree to Dean Akinci, who also sat in on the examination. We are now working on the thesis in the hope of its eventual publication. We believe that it will be of considerable interest and usefulness to the business and political leadership of Erzurum and the Nation. Many of these city leaders aided in gathering data for the thesis, and expressed much interest in the publication. Among these were the governor of Erzurum province and the mayor of the city.

A new course, Economic Development, is being given the present semester. While Arikan was finishing his thesis, I gave the lectures in the course, which he interpreted. Now he is in charge of the course, with my help in planning it. This is a subject of great importance to this country. It is part of the general plan of courses for a major in Economics and Business, although it is now being taken entirely by agricultural students. New hope has been injected into the plans for such a major by the encouragement of the Rector. It is our plan to begin the major next fall with some 20 students assigned to it. The major is planned as a broad educational program, and the first year will not necessitate the institution of any new courses except a second semester in accounting. As the program develops, the part each assistant will play in working up the necessary courses has been laid out.

The Principles of Economics course is being given this semester in three sections, with about 250 students. Each student is provided with a complete set of mimeographed notes, in length between an outline and a small textbook. The first examination has been planned, with each of the three instructors submitting 25 questions, translated into English.

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REPORT OF THE LIBRARY ADVISOR

ATATURK UNIVERSITY

Prof. Arthur J. Vennix

Progress in Library development continued at its snail's pace. The Advisor's greatest personal contribution during the period was the training and supervision of two clerical workers in the process of cataloging books. Midway through the period one of the two was transferred out of the Library program.

In the course of the three month period approximately 1000 books were catalogued and moved into the Reading Room. An additional 450 were catalogued and routed to the Bindery.

The Director of Libraries, Miss Aysay, returned from the Georgetown Language School early in January and resumed her duties, relieving the Dean of the Faculty of Letters and Science from his responsibility as Acting Director of Libraries.

However, Miss Aysay took a five week vacation in February-March, and the Director of Personnel was appointed Acting Director of Libraries. He undertook the reorganization of the Library kadro.

Early in the period an attempt was made to recruit professionally trained staff by means of newspaper advertising. There were no replies to the advertisement. At the close of this period Miss Aysay was hopeful of getting authorization to go to Ankara, Istanbul, and Izmir on a recruiting tour.

The Library Advisor spent the end of February in Izmir at the conference of the Food and Agriculture Division of A.I.D. Many hours during this period were devoted to conferences with Messrs. Webster, Hixon, Gleason, and Smith relative to Library problems, university law,etc.

The Advisor devoted a considerable amount of time during the period to assisting the CARE representative from Trabson in organizing seven village libraries. This assistance was given through the medium of correspondence. Sometime in April or May the Advisor expects to go to Trabzon to assist with the dedication and opening of some of these village libraries.

In the coming quarter further efforts will be devoted to recruiting suitable library personnel and to continuing the cataloging program.

Plant Science Department

John L. Weihing

January 1- March 31, 1964

I arrived in Turkey February 1, but it was March 3 before I assumed my post at Ataturk University. February was spent as follows:

February 1-8: Most of the time was spent being processed and waiting. Due to housing difficulties at Erzurum, the family and I did not leave for Erzurum as planned.

February 10-15: Attended staff meetings at A.I.D., Ankara, became acquainted with the various functions at A.I.D., visited Ankara University and Plant Protection Division at Ankara.

February 17-22: I went on a trip in Western Turkey which was arranged in advance by Harold L. Allen, Chief Advisor, Ataturk University. Following was my itinerary:

February 18- Consulted with Dr. Rifat Gerek, Superintendent of the Eskisehir Experiment Station, and his staff.

February 19- Visited Director of Topraksu with Dr. Wybe Kroontje.

February 20- proceeded from Bursa to Izmir.

February 21-22- Contacted Prof. Dr.Ibrahim Karaca, former Dean of Agriculture at Ataturk University, presently head of Plant Protection Department at Ege University, and spent these two days in consultation with him and others of Ege University.

February 23-28: I attended the A.I.D. Agriculture Division Staff Conference at Izmir.

February 29: proceeded from Ismir to Ankara.

March 2-3: proceeded from Ankara to Erzurum.

The first few days were involved in becoming acquainted with the physical and academic structure of Ataturk University. My predecessor had left during the month of February so I did not have the privilege of his consultation on the structure of the Plant Science Department and its research, academic and extension aspirations. I did have the opportunity

of meeting him in Ankara but my ignorance of the position at Ataturk University nullified much of Mr. Wheeler's good advice which was quite brief because our contact with one another was so short.

A departmental staff meeting was held March 7. At that meeting it was established:

1. That the Plant Science Department will meet every two weeks on Saturdays. Regular Staff meetings had not been held before.

2. That Docent Hasan Yuksel act as official coordinator and communicator between myself and the staff, the Dean and higher officials.

3. That a Departmental seminar be established, Assistant Ali Istar has the responsibility of organizing this seminar. Each staff member is responsible for at least one presentation.

4. That a departmental library containing periodicals, bulletins and books will be started in the seminar room.

5. That transfer students be considered only:

   a. When the student has a grade average of 7 or above, and,
   b. If he has a 7 or above, the student will be accepted only if there is space available.

6. That the advisorship of the students be arranged so that there will be one advisor for each first, second, third, and fourth year student and that Dr. Fahrettin Tosun will be Coordinating Advisor.

A thorough examination of the Plant Science curriculum was made by the departmental staff at our second staff meeting. It is obvious that as Ataturk University grows, that the curriculum should gradually evolve so that degrees can be given in the subject matter areas within Plant Science, Agronomy, Horticulture, and Plant Protection. Following study of the curriculum a report was sent to Prof. Leo Fenske, Chairman of the Committee on Student Regulations, pointing out the present irregularities of the current curriculum and suggesting a standardization of the designation and numbering system in our department.

I have not as yet had the opportunity to fully evaluate the research program in the Plant Science Department. I have had all of the project outlines in the Research Institute translated for my study. I have noted that a summary of last year's results has not been included in the departmental files, so I have reminded the staff to have the reports in by May 1.

From the cursory examination that I have made, it appears that research program is strong in the horticulture and field crops areas, but is weak in plant protection. The plant protection area needs very much to be strengthened.

Department of Soil Science

Wybe Kroontje, Chairman

October 1- December 31,
1963

"IT IS NOT WITH ITS ORDINARY WALK, THAT A CAT CATCHES A RAT"

Creole Proverb

On the 6th of November, I arrived at Ataturk University. At the time of my arrival as well as today, one cannot help but be impressed with the progress made. There is a functioning University with students, faculty and administration.

Our Turkish associates appear to be very much interested in establishing a modern Western type University. An indication of this desire was the request of Rector Hizalan to the Nebraska Group for a critical evaluation of the pressnt situation at Ataturk University.

In the following paragraphs some of the activities of the Soils Department are described.

Soils Department

Shortly after my arrival a survey was made of the teaching and research facilities in classroom and field; meetings were held with the staff of the Soils Department; an inspection trip was made with officials of Topraksu (Soil Conservation Service), to one of their projects in Erzincan, and lectures were given, etc. On the basis of the information obtained, observations made, and advice received, the following objectives were formulated:

1. To set up an efficient soils laboratory

   We are presently making a complete inventory of glassware, chemicals and equipment, and are in the process of establishing a small soil testing laboratory for research, teaching and service purposes. The laboratories have been reorganized.

2. To evaluate present curricula

   Contracts have been made with outstanding Agronomy Departments in the United States in order to obtain information on soils and agronomy curricula. This information will serve as background material for the evaluation of our present course offerings and content. The possibility of establishing majors within the area of Soil Science and a closer cooperation with the Department of Agricultural Engineering are being considered.

3. To determine the utilization of present staff and the need for additional staff

   There is a great need for additional assistants in the Soils Department, in fact, the situation will become very acute, indeed, with the leaving

of Nazmi Oruc for the United States in January 1964. This situation has already been brought to the attention of the Rector, and we are awaiting his approval for initiating a recruitment program.

4. To study the availability of technical literature of Soil Science in the library

A listing of outstanding literature in soil science and related fields is being compiled. It will form a basis for the procurement of additional books and periodicals. The need for Turkish textbooks in Soil Science is great. An effort is being made to have certain outstanding American textbooks translated into Turkish.

5. To evaluate and strengthen present research activities

The present research program is in the process of being summarized. Outstanding field research facilities are available, in fact these facilities are second to none. The nature of the research conducted presently is and will be for some time to come of a rather pragmatic nature, designed to meet existing problems. Projects in soil fertility and soil water are in the process of being formulated. A major effort will be made to bring Ataturk University closer to the people through research and extension.

January 1- March 31, 1964

"IT IS A LONG JOURNEY WE HAVE TO TRAVEL, BUT LET US MAKE A BEGINNING, LET US TAKE THE FIRST STEP.....

John F. Kennedy.

These are the words which frequently enter into my mind. Sometimes one notices signs of promise, at other moments it is hard to understand why there is not more rapid progress.

It is realized that often advances are being made which cannot yet be measured by human devices. In our great desire to see rapid progress, especially such progress which can be expressed in figures, there often is a tendency to forget that "Rome was not built in a day", and that "Patience is a great virtue." It takes time, persistence, and dedication to succeed in making a break with the past; however, if there is a genuine desire on the part of all of us, Turks and Americans, to do so, we will succeed in creating something new at Ataturk University.

DEPARTMENT OF SOIL SCIENCE

INTRODUCTION

The staff of the Department of Soil Science is composed of eight instructors, four of whom are presently studying abroad. Their names, specialties, as well as other information are given below:

	Name	Specialty	Date of return
1.	Prof. Dr. Wybe Kroontje	Soil Fertility	Oct. 28, 1965 USA
2.	Dr. Asst. Omer Baykan	General Soils Soil Classification	Resident Staff
3.	Dr. Asst. Lutfi Ogus	Soil Fertility Soil Chemistry	Resident Staff
4.	Miss Inayet Berkman	Soil Physics Soil Conservation	Resident Staff
		Staff Abroad	
5.	Doc. Dr. Abdullah Ergene (Germany)	Soil Fertility	March 1965
6.	Dr. Asst. Necati Aksoy (Uni. of Nebr.)	Soil Microbiology	August 1966
7.	Dr. Asst. Hayati Celebi (Oklahoma State Uni. presently still in Georgetown)	Soil Conservation	July 1966
8.	Dr. Asst. Nazmi Oruc (Univ. of California Riverside)	Soil Chemistry	January 1966

Besides their regular teaching duties, the staff has been engaged in the translation of the Soils Laboratory Manual of the American Society of Agronomy as well as in other University activities such as registration, University budget, and examination committees. The chairman, besides general administration, has been engaged with his staff in such activities as assisting in the teaching of soils courses, developing the Soil Science curriculum, strengthening research activities, preparing new student regulations, coordinating national interests in regard to the possible formation of a Turkish Soil Science Society, reviewing manuscripts, etc.

He also participated in a panel discussion of, "To What Extent are Various Training and Education Institutions and Programs Meeting the Needs of Turkish Agriculture." This panel was part of a program presented at the Agricultural Division Conference, Izmir, February 24-28, 1964, which he attended. Enroute to Izmir he also visited many colleagues in TOPRAKSU, and at Ege, Ankara and Istanbul Universities.

TEACHING

The following courses were taught during the fall semester which ended on February 1, 1964:

Toprak 51 General Soils 3 lectures, 1 laboratory
Instructor: Dr. Omer Baykan
Section 1, 135 students
Section 2, 70 students

Toprak 155	Soil Chemistry, 2 lectures, 1 laboratory Instructor: Dr. Lutfi Ogus 25 students
Toprak 154	Soil Physics, 2 lectures, 1 laboratory Instructor: Miss Inayet Berkman 47 students

We have presently three assistantships available, and find it difficult to obtain qualified candidates. The stipends are too low and for this reason few are attracted to an academic career.

One of the greatest problems in the teaching program is the lack of assistants. This lack of assistants is especially felt in Toprak 51. Since instructors are supposedly only to teach one course per semester according to Turkish Law, no other staff member apparently can be assigned to the teaching of Toprak 51.

Nazmi Oruc an assistant in the Department of Soil Science, obtained his Ph.D. degree in Soil Science and is now receiving advanced training in Soil Chemistry at the University of California at Riverside.

RESEARCH

The staff is presently engaged in four research projects, all of which are of a rather practical nature and will provide the villagers with information on the fertilization of wheat, potatoes and sugar beets. The lack of assistants also hampers progress in this area.

EXTENSION

This is an area which needs considerable strengthening. Presently we do not have one person on our staff whose main responsibility is to bring technical information to the farmer. The need is very, very great for this kind of service.

In order to make a beginning, even with our very limited resources, we are helping the Regional Office of TOPRAKSU in establishing a Soil Testing Laboratory and are helping the Federal Extension Service in their demonstration program. At the national level we are exploring with other Soil Scientists the possibility of forming a Soil Science Society in Turkey. Furthermore, we are exerting leadership in establishing a possible cooperation between TOPRAKSU and the Departments of Soil Science and Agricultural Engineering.

PROF. JOHN ORVIS KELLER

Professor John Orvis Keller served on the faculty of the Pennsylvania State University for some 38 years successively as instructor, assistant professor, associate professor and director of general Extension. He was Assistant to two Presidents of the University, namely, Ralph Dorn Hetzel and Milton S. Eisenhower, a younger brother of President Dwight D. Eisenhower. Mr. Keller retired from his position in 1953 as Professor Emeritus of Industrial Engineering and Director Emeritus of general Extension.

Professor Keller was employed by the University of Nebraska with its faculty in Turkey as Engineering Educator and Advisor to the Ataturk University Development Committee in Ankara from 1955 to 1957. He was visiting Professor of Management at Hofstra College, Hempsted, Long Island, from 1957 to 1963.

Mr. Keller was a member of the faculties of the Iowa State College (2 years), the University of Oklahoma (1 year) and lectured for Rutgers University one summer on a tour of several European countries. He has worked for many well known industrial concerns in the United States during summers such as Western Electric & Mfg. Co., the Austin Company, Prath & Whitney, the Aluminum Company of America, Winchester Repeating Arms Co., and served one year as special consultant to the Internal Revenue Service of the United States Government.

Mr. Keller served as arbitrator for the American Arbitration Association on labor management cases and was a member of the panel of arbitrators for the joint arbitration council of the U.S. Steel Company and the United Steel Workers of America. He was a member of the American Academy of Arbitrators. He wrote a number of articles for technical publications and was a member of Tau Beta Pi and Psi Chi honorary fraternities. He was a registered professional engineer in Pennsylvania No. 7085.

Mr. Keller died suddenly July 25, 1963.

Dr. John M. Winter
(1900 - 1964)

Dr. John M. Winter, Chairman of the Department of Botany of the State University of South Dakota, died in Vermillion on January 12, 1964 from the effects of a heart attack on Thanksgiving Day. He was born at Stuart, Iowa on February 19, 1900 and spent most of his life in Iowa, Colorado, Nebraska and South Dakota.

He received his B.S., M.S. and Ph.D. degrees at the University of Nebraska and taught Botany at the University of Nebraska, Northwestern University and South Dakota State College. He was Head of the Botany Departments at Peru State Teachers College, Peru, Nebraska and the State University of South Dakota. He held his position at the State University of South Dakota since 1948.

Dr. Winter took a two-year leave of absence from June 1961 to July 1963 from South Dakota to work with the Nebraska staff in assisting with the development of Ataturk University at Erzurum, Turkey. In addition to nursing the Botany Department through its infancy, Dr. Winter donated a valuable personal collection of Scientific Journals and Abstracts to the Ataturk University Library.

Dr. Winter had a wide range of interest in the fields of Botany and Biology which included Taxonomy, Plant Pathology and all other phases of Botany. Much of his recent research dealt with a study of the possibility of using corn seedlings in connection with a blood test for cancer. He was a member of several Botanical organizations and a "Fellow" of the American Association for the Advancement of Science. For several years he served as Secretary of the South Dakota Academy of Science.

Dr. Winter's life was dedicated to teaching the next generation.